

**SELF ADJUSTING STEREO CAMERA SYSTEM**  
**ABSTRACT OF THE DISCLOSURE**

A stereo camera system including: a stereo  
imaging system such as two or more cameras or a camera  
5 and a set of angled mirrors, for outputting at least one  
stereo image; a recognition system for locating an object  
of interest in the field of view of the stereo imaging  
system and at least one of a distance of the object of  
interest from the stereo imaging system and the size of  
10 the object of interest; and an adjustor for automatically  
changing at least one system parameter which affects the  
spatial resolution of the object of interest based on at  
least one of the located distance of the object of  
interest from the stereo imaging system and the size of  
15 the object of interest.